



Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

(2541 FWC 4 DIV CIP CON 3)  
203-2716 FWC 4 DIV CIP CON 3

Application Number

10/730,826

Applicant

Eric R. Cosman

Filing Date

December 8, 2003

Group Art Number

TBD

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
RY	3,777,124	12/1973	Pavkovich			
	4,319,136	3/1982	Jinkins			
	4,463,758	8/1984	Patil et al.			
	4,535,782	8/1985	Zoltan			
	4,598,368	7/1986	Umemura			
	4,617,925	10/1986	Laitinen			
	4,618,978	10/1986	Cosman			
	4,653,509	3/1987	Oloff et al.			
	4,386,602	6/1983	Sheldon et al.			
	4,722,336	2/1988	Kim et al.			
	4,760,851	8/1988	Fraser et al.			
	4,761,072	8/1988	Pryor			
RY	4,782,239	11/1988	Hirose et al.			
	4,797,736	1/1989	Kloots et al.			
RY	4,826,487	5/1989	Winter			
	4,838,265	6/1989	Cosman			
RY	4,845,626	7/1989	Ohhashi			
	4,859,181	8/1989	Neumeyer			
RY	4,869,247	9/1989	Howard, III et al.			
	4,884,566	12/1989	Mountz et al.			
RY	4,941,164	7/1990	Schuller et al.			

Examiner

Date Considered

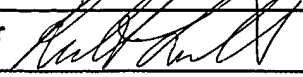
7/05

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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	<b>Applicant</b> Eric R. Cosman		
	<b>Filing Date</b> December 8, 2003		<b>Group Art Number</b> TBD

### U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
BY	4,979,222	12/1990	Weber			
	4,985,019	1/1991	Michelson			
	5,052,035	9/1991	Krupnick			
	5,056,523	10/1991	Hotchkiss, Jr. et al.			
	5,070,454	12/1991	Griffith			
	5,116,344	5/1992	Sundqvist			
	5,142,559	8/1992	Wielopolski et al.			
	5,147,372	9/1992	Nymark et al.			
	5,154,179	10/1992	Ratner			
	5,163,430	11/1992	Carol			
	5,165,410	11/1992	Warne et al.			
	5,178,146	1/1993	Giese			
	5,198,977	3/1993	Salb			
	5,222,499	6/1993	Allen et al.			
	5,230,623	7/1993	Guthrie et al.			
	5,233,990	8/1993	Barnea			
	5,247,555	9/1993	Moore et al.			
	5,257,998	11/1993	Ota et al.			
	5,260,871	11/1993	Goldberg			
	5,280,427	1/1994	Magnusson et al.			
BY	5,285,772	2/1994	Ratner			

<b>Examiner</b> 	<b>Date Considered</b> 2/05
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M	5,285,787	2/1994	Machida			
	5,295,483	3/1994	Nowacki et al.			
	5,307,807	5/1994	Valdès Sosa et al.			
	5,309,913	5/1994	Kormos et al.			
	5,354,314	10/1994	Hardy et al.			
	5,397,329	3/1995	Allen			
	5,398,684	3/1995	Hardy			
RM	5,436,542	7/1995	Petelin et al.			
	<del>5,446,548</del>	<del>8/1995</del>	<del>Gerig et al.</del>			
RM	5,526,812	6/1996	Dumoulin et al.			
	5,588,430	12/1996	Bova et al.			
	5,622,187	4/1997	Carol			
	5,682,890	11/1997	Kormos et al.			
	5,776,064	7/1998	Kalfae et al.			
	5,778,043	7/1998	Cosman			
	5,792,146	8/1998	Cosman			
	5,792,147	8/1998	Evans et al.			
	5,817,105	10/1998	Van Der Brug			
M	5,836,954	11/1998	Heilbrun et al.			

Examiner

Date Considered

7/6/5

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Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
KL	WO 88/09151 A1	12/1988	PCT				X
KL	WO 94/23647 A1	10/1994	PCT			X	
KL	WO 95/25475 A1	9/1995	PCT			X	
	WO 96/11624 A2	4/1996	PCT			X	

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KL	—	B. D. Milliken, et al., "Performance of a Video-Image-Subtraction Based Patient Positioner System," <i>Int. J. Radiation Oncology Biol. Phys.</i> , Vol. 38, pp. 855-866, 1997.
KL	—	Lavallee, S. et al., "Computer Assisted Puncture", <i>Reconnaissance Des Formes et Intelligence Artificielle</i> , 6th Congres Exposition, vol. 1, Nov. 16-20, 1987.
KL	—	Fuchs, Henry et al., "Acquisition and Modeling of Human Body Form Data," <i>SPIE</i> , vol. 166, <i>Applications of Human Biosteriometrics (NATO)</i> (1978).
KL	—	Brown, Russell A., "A Stereotactic Head Frame for Use with CT Body Scanners", <i>Investigative Radiology</i> , vol. 14, No. 4, Jul.-Aug. 1979.
KL	—	Mesqui, F. et al., "Real-Time, Noninvasive Recording and Three-Dimensional Display of the Functional Movements of an Arbitrary Mandible Point", <i>SPIE</i> vol. 602 <i>Biostereometrics</i> 85 (1986).

<b>Examiner</b> 	<b>Date Considered</b> 7/6/05
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	Applicant <b>Eric R. Cosman</b>		
	Filing Date December 8, 2003	Group Art Number TBD	

**U.S. PATENT DOCUMENTS**

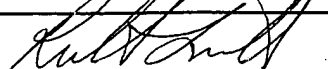
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**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	WO 97/45064 A1	12/1997	PCT			X	
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KL	0 146 699 A1	7/1985	EP				X
	0 629 963 A2	12/1994	EP			X	
	0 672 389 A2	9/1995	EP			X	
KL	766 581	9/1980	SU				X
KL	955 916	9/1982	SU				X

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KL	Roberts et al., "A Frameless Stereotaxic Integration of Computerized Tomography Imaging and The Operating Microscope", J. Neurosurg. 65:545-549 (1986).
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KL	Reinhardt, H.F. and Landolt, H., "CT-Guided "Real-Time" Stereotaxy", Acta Neurochirurgica, Suppl. 46, 107-108 (1989).
KL	Reinhardt, H., "Surgery of Brain Neoplasms Using 32-P Tumour Marker", Acta Neurochirurgica, 97:89-94 (1989).
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	December 8, 2003	TBD	

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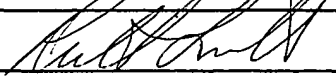
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

### FOREIGN PATENT DOCUMENTS

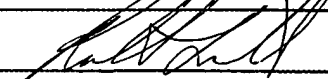
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111	1282623	12/1961	FR				X
111	2,094,590 A	9/1982	GB			X	
111	2,213,066 A	8/1989	GB			X	
111	2,809,645 A1	11/1978	DE				X
111	295 05 318 A1	5/1995	DE				X
111	297 04 393 U1	7/1997	DE				X
111	3508730 A1	9/1986	DE				X

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111	Lavallee, S. et al., "Computer Assisted Interventionist Imaging: The Instance of Stereotactic Brain Surgery", <i>Medinfo 89</i> , Part 1
111	Lemke, H.U. et al. (ed.), "Computer Assisted Radiology", <i>Proceedings of the International Symposium CAR '89</i> .
111	Lavallee, S., "A New System for Computer Assisted Neurosurgery", <i>IEEE Advanced Topics in Biorobotics, Engineering in Medicine and Biology Society 11th Annual International Conference (1989)</i> .
111	Reinhardt, H.F., "Interactive Sonar-Operated Device for Stereotactic and Open Surgery", <i>Proceedings of the Xth Meeting of the World Society for Stereotactic and Functional Neurosurgery</i> , Maebashi, Japan, Oct. 1989 (1990).
111	Lavallee, Stephane and Cinquin, Philippe, "Computer Assisted Medical Interventions", <i>3D Imaging in Medicine</i> , NATO ASI Series, vol. F 60 (1990).

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes    No
<b>OTHER DOCUMENTS</b>							
		Mazier, B. et al., "Computer Assisted Vertebral Column Surgery: Application to the Spinal Pedicle Fixation", <i>Innov. Technol. Biol. Med.</i> , vol. 11, No. 5 (1990).					
		Mazier, B. et al., "Computer Assisted Interventionist Imaging: Application to the Vertebral Column Surgery", Annual International Conference of the IEEE Engineering in Medicine and Biology Society, vol. 12, No. 1 (1990).					
		Colchester, A.C.F. and D.J. Hawkes (eds), Information Processing in Medical Imaging, 12th International Conference IPMI '91, Wye, UK, Jul. 1991 Proceedings.					
		"3-D Digitizer Captures the World", <i>Byte</i> , p. 43, Oct. 1990.					
		Watanabe, Eiju et al. "Three-Dimensional Digitizer (Neuronavigator): New Equipment for Computed Tomography-Guided Stereotaxic Surgery", <i>Surg. Neurol.</i> , pp. 543-547, No. 27, 1987.					
		Reinhardt, H. et al., "A Computer-Assisted Device for the Intraoperative CT-Correlated Localization of Brain Tumors", <i>Eur. Surg. Res.</i> , pp. 51-58, No. 20, 1988.					

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Sheet 1 of 8

Form PTO 4439

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Docket Number (Optional)

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**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
111	3,821,469	6/1974	Whetsone et al.			
	3,983,474	9/1976	Kuipers			
	4,058,114	11/1977	Soldner			
	4,068,156	1/1978	Johnson et al.			
	4,068,556	1/1978	Foley			
	4,182,312	1/1980	Mushabac			
	4,262,306	4/1981	Renner			
	4,341,220	7/1982	Perry			
	4,358,856	11/1982	Stivender et al.			
	4,407,298	10/1983	Lentz et al.			
	4,457,311	7/1984	Sorenson et al.			
	4,465,069	8/1984	Barbier et al.			
	4,473,074	9/1984	Vassiliadis			
	4,506,676	3/1985	Duska			
	4,571,834	2/1986	Fraser et al.			
	4,583,538	4/1986	Onik et al.			
	4,592,352	6/1986	Patil			
	4,602,622	7/1986	Bar et al.			
	4,608,977	9/1986	Brown			
	4,638,798	1/1987	Shelden et al.			
111	4,645,343	2/1987	Stockdale et al.			

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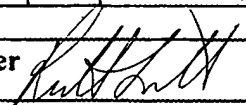
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## **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
24	4,651,732	3/1987	Frederick			
	4,659,971	4/1987	Suzuki et al.			
	4,660,970	4/1987	Ferrano			
	4,674,057	6/1987	Caughman et al.			
	4,686,997	8/1987	Oloff et al.			
	4,698,777	10/1987	Toyoda et al.			
	4,701,049	10/1987	Beckmann et al.			
	4,701,407	10/1987	Appel			
	4,705,395	11/1987	Hageniers			
	4,705,401	11/1987	Addleman et al.			
	4,706,665	11/1987	Gouda			
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	4,722,056	1/1988	Roberts et al.			
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	4,733,969	3/1988	Case et al.			
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	4,742,815	5/1988	Ninan et al.			
	4,743,770	5/1988	Lee			
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<i>ky</i>	4,750,487	6/1988	Zanetti			
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	4,761,072	8/1988	Pryor			
	4,762,016	8/1988	Stoughton et al.			
	4,764,016	8/1988	Johanasson			
	4,776,749	10/1988	Wanzenberg et al.			
	4,779,212	10/1988	Levy			
	4,791,934	12/1988	Brunnett			
	4,794,262	12/1988	Sato et al.			
	4,805,615	2/1989	Carol			
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	4,825,091	4/1989	Breyer et al.			
	4,829,373	5/1989	Leberl et al.			
	4,835,710	5/1989	Schnelle et al.			
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<i>ky</i>	4,875,478	10/1989	Chen			

Examiner

*Ruth Smith*

Date Considered

*7/05*

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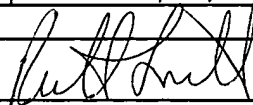
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PU	4,896,673	1/1990	Rose et al.			
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	4,945,914	8/1990	Allen			
	4,954,043	9/1990	Yoshida et al.			
	4,955,891	9/1990	Carol			
	4,961,422	10/1990	Marchosky et al.			
	4,991,579	2/1991	Allen			
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	5,086,401	2/1992	Glassman et al.			
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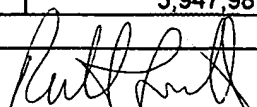
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	5,197,476	3/1993	Nowacki et al.			
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	5,211,164	5/1993	Allen			
	5,224,049	6/1993	Mushabac			
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	5,305,203	4/1994	Raab			
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	5,383,454	1/1995	Bucholz			
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	<del>5,622,170</del>	<del>4/1997</del>	<del>Schulz</del>			
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Examiner



Date Considered

7/05

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

(2541 FWC 4 DIV CIP CON 3)  
203-2716 FWC 4 DIV CIP CON 3

Application Number

10/730,826

Applicant

Eric R. Cosman

Filing Date

December 8, 2003

Group Art Number

TBD

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	6,006,126	12/1999	Cosman			
<i>RU</i>	6,143,003	11/2000	Cosman			
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<i>RU</i>	6,405,072	6/2002	Cosman			

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>RU</i>	0 018 166 A1	10/1980	EP				
<i>RU</i>	0 062 941 A1	10/1982	EP				
<i>RU</i>	0 326 768 A2	8/1989	EP				
	2,094,590	9/1982	GB				
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<i>RU</i>	90/05494 A1	5/1990	WO				
<i>RU</i>	91/07726 A1	5/1991	WO				

Examiner

*Eric R. Cosman*

Date Considered

*7/5*

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\* Did not receive any FOR or NPL.

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	Docket Number (Optional)		Application Number
	(2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3		10/730,826
	Applicant		
	Eric R. Cosman		
Filing Date		Group Art Number	
December 8, 2003		TBD	

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

### OTHER DOCUMENTS

<i>ll</i>		Kosugi, Yukio, et al., "An Articulated Neurosurgical Navigation System Using MRI and CT Images", <i>IEEE Transactions on Biomedical Engineering</i> , vol. 35, No. 2, pp. 147-152 Feb. 1988 (article).
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<i>ll</i>		Adams, Ludwig, et al., "Computer-Assisted Surgery", <i>IEEE Computer Graphics &amp; Applications</i> , pp. 43-51, May 1990 (article).

Examiner <i>Ruth Smith</i>	Date Considered <i>7/05</i>
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

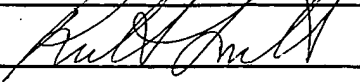
<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>Docket Number (Optional)</b> (2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3		<b>Application Number</b> 10/730,826
	<b>Applicant</b> Eric R. Cosman		
	<b>Filing Date</b> December 8, 2003		<b>Group Art Number</b> TBD

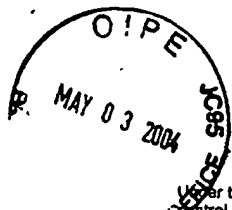
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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

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<b>Examiner</b> 	<b>Date Considered</b> 7/05
Examiner: Initial if citation considered, whether or nor citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	



PTO/SB/08A (10-01)  
Approved for use through 10/31/2002. OMB 0851-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/730,826
		Filing Date	12/08/2003
		First Named Inventor	Eric R. Cosman
		Art Unit	3737
		Examiner Name	To Be Determined
Sheet 1	of 1	Attorney Docket Number	2541FWC4DIVCIPCON3 (2013716FWC4DIVCIPCON3)

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Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>3</sup> (if known)			
11		US- 6,006,126 A	12-21-1999	COSMAN Eric R.	
		US- 5,622,170A	04-22-1997	SCHULZ Waldean A	
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Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
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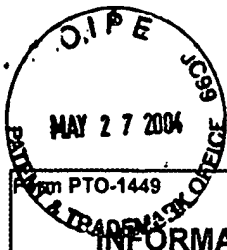
Examiner Signature		Date Considered	7/05
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>Docket Number (Optional)</b> (2541 FWC 4 DIV CIP CON 3) 203-2716 FWC 4 DIV CIP CON 3	<b>Application Number</b> 10/730,826
	<b>Applicant</b> Eric R. Cosman	
	<b>Filing Date</b> December 8, 2003	<b>Group Art Number</b> TBD

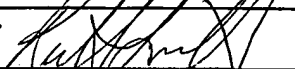
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
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**OTHER DOCUMENTS**


<b>Examiner</b> 	<b>Date Considered</b> 7/05
<b>Examiner:</b> Initial if citation considered, whether or nor citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	